



# FACILITY COMPLIANCE INSPECTION REPORT

## Division of Waste Management Solid Waste Section

<b>UNIT TYPE:</b>												
Lined MSWLF		LCID		YW		Transfer		Compost	<b>X</b>	SLAS		<b>COUNTY: Durham</b> <b>PERMIT NO.: 32-04</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM		
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		

**Date of Site Inspection:** February 14, 2013 **Date of Last Inspection:** February 17, 2012

**FACILITY NAME AND ADDRESS:**

City of Durham Large, Type 1 Solid Waste Compost Facility  
 2115 East Club Boulevard  
 Durham, NC 27704

**GPS COORDINATES:** N: 36.03767 E: -78.85255

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Chris Marriott, City of Durham – Waste Disposal Manager

w. 919-560-4186 x32253

f. 919-560-1197

c. 919-452-2804

[chris.marriott@durhamnc.gov](mailto:chris.marriott@durhamnc.gov)

**FACILITY CONTACT ADDRESS:**

Chris Marriott, Waste Disposal Manager  
 City of Durham Solid Waste Management Department  
 1833 Camden Avenue  
 Durham, NC 27704

**PARTICIPANTS**

John Patrone, NCDENR – Solid Waste Section (SWS)

Chris Marriott, City of Durham – Waste Disposal Manager

**STATUS OF PERMIT:**

Permit To Operate (PTO) issued June 9, 2010

PTO expiration date June 9, 2015

**PURPOSE OF SITE VISIT:**

Comprehensive Inspection

**STATUS OF PAST NOTED VIOLATIONS:**

None

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**OBSERVED VIOLATIONS**

None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**ADDITIONAL COMMENTS**

On February 14, 2013, John Patrone met with Chris Marriott to conduct a comprehensive inspection of the City of Durham Large, Type 1 Solid Waste Compost Facility located on East Club Boulevard in Durham, Durham County.

1. The facility is a Large, Type 1 Solid Waste Compost (SWC) Facility. It grinds yard waste and produces mulch from untreated and unpainted wood and wooden pallets.
2. The facility permit, operations plan, and site plan were discussed.
3. The area allotted for facility operation is 11.02 acres.
4. Material is received from Durham County.
5. The facility is in operation Monday through Friday 7:30 am to 4:30 pm and on Saturday 7:30 am to noon.
6. The facility is located adjacent to the City of Durham Closed Municipal Solid Waste (MSW, 32-01) Landfill, access via gravel service road.
7. City of Durham vehicles deposit material on site. Residents off-load material at a designated area adjacent to the City of Durham Transfer Facility (32-12), located at the entrance to the SWC facility service road. City of Durham personnel place the material into open top containers and routinely haul it to the facility.
8. All material brought to the facility is weighed on the vehicle scale at the City of Durham Transfer Facility.
9. The facility does not compost material. The ground yard waste is hauled to Novozymes North America, Inc. Large, Type 3 SWC Facility (35-04) to complete the compost process. The mulch produced from untreated and unpainted wood and wooden pallets is hauled to PalletOne of North Carolina, Inc.
10. The facility is composed of five functional areas: receiving, grinding, windrow (not used), curing/storage (not used), and stormwater retention (pond).
11. When the permit is renewed/modified ensure that the facility operational process is incorporated into the operations plan. If material is composted on site the facility is required to adhere to the permit and operations plan.
12. The facility contracts to have material ground. The contractor maintains a wood grinder on site, unless needed elsewhere.
13. Yard waste is typically ground once or twice a week and hauled-off site weekly.
14. Untreated and unpainted wood and wooden pallets are ground monthly or as needed and hauled-off site as per the volume of mulch produced.
15. The facility conducts moisture and temperature readings once or twice a week on ground yard waste piles to ensure that the temperature is maintained below 160° F prior to it being hauled-off site. Records of moisture and temperature readings were verified for 2012. Ground yard waste piles are not turned prior to being hauled-off site unless required to reduce temperature.
16. The facility has one temperature probe and moisture meter. The temperature probe was calibrated on August 7, 2012. It is suggested that the moisture meter be routinely calibrated/serviced.
17. The facility operational capacity is limited to 14,000 tons of feedstocks per year received for composting.
18. The facility maintains records of the amount and type of material received. The amount of material received from July 2012 through January 2013 is ~ 1,098.6 TPM of yard waste and ~ 11.6 TPM of untreated and unpainted wood and wooden pallets. Currently, the facility has received ~ 7,771.97 tons of feedstock material.

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19. The facility annual report (FAR) received by the SWS is dated July 27, 2012. Facility throughput for July 2011 through June 2012 is 14,144.80 tons. The amount of ground yard waste produced (hailed-off site to be composted) is 13,921.61 tons. The amount of wood mulch created is 190.95 tons. When the facility permit is renewed/modified ensure that the facility operational capacity is increased accordingly.
20. The facility has a stormwater retention pond designed to capture runoff from the site (sized to capture 100 year peak discharge and store 100 year - 24 hour storm event).
21. The facility is required to remove accumulated sediment in the stormwater retention pond to maintain designed storage volume.
22. The level of the stormwater retention pond is required to be maintained  $\leq 302.28$  (feet above sea level) on the monitoring gauge. During the inspection, the stormwater retention pond monitoring gauge was at 301.2.
23. The stormwater retention pond is piped (siphon controlled, manually operated) to the North Durham Water Reclamation Facility (City of Durham letter, 03/16/11). The facility has an Industrial Wastewater Discharge Permit #4002, effective: 01/01/13, expiration: 12/31/15.
24. The stormwater retention pond liner sidewall protective layer of gravel, of which much has slid into the pond, should be removed (from the retention pond) and replaced/reapplied.
25. The stormwater retention pond is required to be repaired. The liner has been punctured in numerous spots (presumably by deer) above the maximum stormwater retention level.
26. Until the stormwater retention pond liner is repaired, the facility shall inspect the pond twice daily, three times a week, maintain the water level accordingly, and install a deer/litter fence around the pond (City of Durham letter, 04/25/11). Records were reviewed for pond inspections and water level for 2012. A deer/litter fence has been installed.
27. After the stormwater retention pond liner is repaired, provide the SWS a summary report with pictures (SWS email, 09/28/11). The facility has patched a few of the retention pond liner punctures. Mr. Marriott stated that the remaining punctures will be repaired by late spring 2013 and notification will be provided to SWS.
28. Facility personnel are required to conduct daily inspection of the site.
29. If subgrade rutting occurs the facility should back blade and level the area to ensure positive drainage.
30. There was no indication of erosion or runoff.
31. The facility shall maintain 25' fire lanes.
32. The City of Durham Fire Department will respond to an emergency at the facility.
33. The facility is secured by a locked gate at the entrance to the access road.
34. Access roads are of all-weather construction.
35. The facility has proper signage.
36. The permit expiration date is June 9, 2015.
37. Permit renewal application should be submitted to the SWS ~ February 9, 2015.

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Please contact me if you have any questions or concerns regarding this inspection report.



John Patrone  
Environmental Senior Specialist  
*Regional Representative*

Phone: 336-771-5095 Fax: 336-771-4631

Sent on: <u>February 22, 2013</u>	X	Email		Hand delivery		US Mail	Certified No. <u>  </u>
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Copies: Jason Watkins, Western District Supervisor  
Jessica Montie, Compliance Officer  
Tony Gallagher, Environmental Supervisor  
Donna Wilson, Environmental Engineer  
Liz Patterson, Composting and Land Application Branch  
Donald Long, City of Durham - Solid Waste Director ([donald.long@durhamnc.gov](mailto:donald.long@durhamnc.gov))

Digital pictures taken February 14, 2013  
by John Patrone, DWM-SWS

Ground yard waste pile # 1



Wood mulch, pallets, and ground yard waste pile #2





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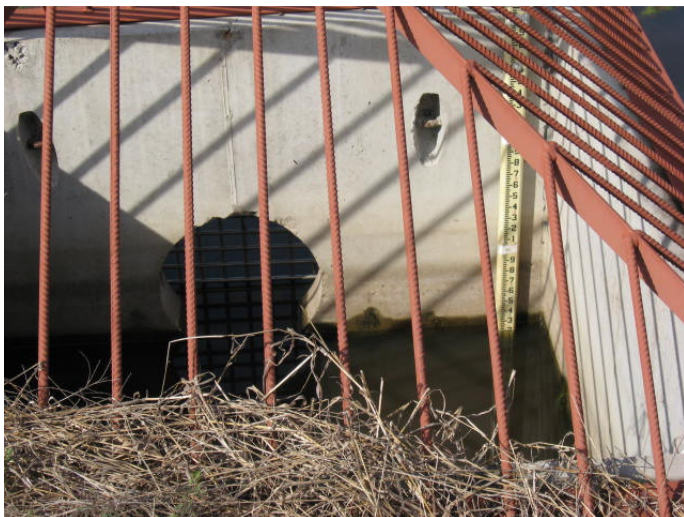
Stormwater retention pond, view left from level monitoring gauge



Stormwater retention pond, view right from level monitoring gauge



Stormwater retention pond level monitoring gauge



Stormwater retention pond liner patch (typical), gravel cover material to be replaced/reapplied

